

Development of onsite CO2 recycling technology

~The first technology in Japan to produce potassium carbonate from gas emissions~

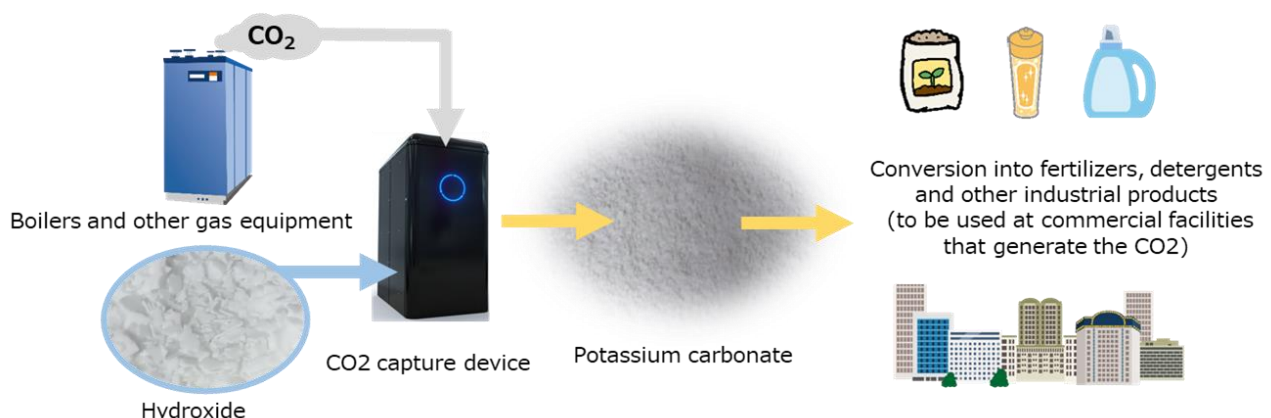
Tokyo Gas Co., Ltd.

Tokyo Gas Co., Ltd. (President: UCHIDA Takashi; "Tokyo Gas") has developed an onsite CCU*¹ technology (the "Technology") that recycles CO₂ and produces potassium carbonate at the site of city gas customers by causing reactions between the CO₂ in the emissions from city gas equipment and hydroxide. Potassium carbonate is a raw material used in various industrial products such as detergents and fertilizers.

The Technology uses CARBiN-X (the "Device"), a CO₂ capture device by Canada's CleanO2 Carbon Capture Technologies ("CleanO2"), which can produce potassium carbonate. Although the Device has a track record in North America, this will be its first introduction in Japan. Since gas emission properties and the air environment differ between North America and Japan, Tokyo Gas conducted joint examinations with CleanO2 and experiments in Japan, culminating in the successful development of a unique production technology.

Due to its small size (2.0m x 0.85m x 1.9m (LxWxH)), the Device can be installed in places with limited space, such as commercial facilities, enabling CO₂ emissions reduction and recycling at various locations. We will aim to commercialize the Technology through demonstrations combining customers' gas equipment and the Device.

< Illustration of onsite CCU >



In our management vision "Compass2030," we declared that we will take on the challenge of achieving Net-Zero CO₂ across all business operations, including at customers' sites. By providing various solutions, including the onsite CCU

technology, we will continue to engage in initiatives to reduce environmental impact on a global scale, together with our customers.

*1: onsite CCU technology: To capture and utilize onsite CO2 emitted at the sites of customers of city gas.